UNITED STATES SIGNAL SERVICE

MONTHLY WEATHER REVIEW.

Vol. XVI.

WASHINGTON CITY, FEBRUARY, 1888.

No. 2.

INTRODUCTION.

This Review treats generally the meteorological conditions both countries. Descriptions of the storms that occurred over the north Atlantic Ocean are also given, and their paths shown ice and the limits of fog-belts west of the fortieth meridian. Review. The weather over the ocean was unusually fine for the season, In the last six years, was an entire absence of icebergs in the vicinity of Newfoundland and the Grand Banks.

In the central and upper portions of the Mississippi valley the month was decidedly colder than the average, and the temperature was generally below the normal in all districts east

from 25 to 65 per cent.

In this REVIEW are given extracts from the monthly reports of the United States and Canada for February, 1888, and is of twenty state weather services, and also from the report of based upon the reports of regular and voluntary observers of the New England Meteorological Society, the territory of the latter embracing the six New England states; this is the largest number of reports of local meteorological associations that on chart i, on which also appears the distribution of field have so far been received in time to be incorporated in the

In the preparation of this REVIEW the following data, and the depressions traced were deficient in number and energy, when compared with the record of corresponding months of previous years. A noteworthy feature, unparalleled in the Canadian stations, as telegraphed to this office; 177 monthly journals and 174 monthly means from the former and 24 monthly means from the latter; 307 monthly registers from voluntary observers; 60 monthly registers from United States Army post surgeous; marine records; international simultaof the Missouri Valley to the northward of the thirty-fifth par-neous observations; marine reports through the co-operation allel. In the Southern States, Rocky Mountain and Pacific of the Hydrographic Office, United States Navy, and the "New coast regions, the mean temperatures were above the normal, York Herald Weather Service;" monthly weather reports from the departures being unusually marked in northern Rocky the local weather services of Alabama, Arkansas, Colorado, Mountain districts, where they amounted to 10°.

In connection with the monthly precipitation, the most important feature was the large deficiency on the Pacific coast, Jersey, North Carolina, Ohio, Oregon, Pennsylvania, South in the lower lake region, Ohio and central Mississippi valleys, Carolina, and Tennessee, and the Central Pacific Railway in which districts the precipitation fell short of the average Company; trustworthy newspaper extracts, and special reports.

ATMOSPHERIC PRESSURE (expressed in inches and hundredths).

Signal Service, is shown by isobarometric lines on chart ii.

least in Arizona, New Mexico, and western Texas, and in the extreme northeastern Canadian Provinces, where the monthly barometric means fall to 30.0, or slightly below. Over much the larger part of the United States the mean pressures range from 30.05 to 30.1. The extreme mouthly means are: highest, 30.18, at Fort Bidwell, Cal.; lowest, 29.98, at Sydney, N. S.

The departures from the normal pressure at the various Signal.

nal Service stations are given in the table of miscellaneous meteorological data. Although comparison of the mean pressure of the current month with the February normal shows a slightly above the normal.

The distribution of mean pressure for February, 1888, de-northeastern New England and the Maritime Provinces. In termined from the tri-daily telegraphic observations of the the first named district the increase ranges from .10 to .14 at the first named district the increase ranges from .10 to .14 at stations near the coast, and in the latter, from .06 at Eastport, The mean pressure for the month is greatest in the northern Me., to .19 at Sydney, N. S. In all other portions of the and central Pacific coast regions and in the adjacent portions country the mean pressure of February is below that of Januof the plateau region, the area of maximum mean pressure ary; over the entire region between the seventy-seventh and being inclosed by the isobar of 30.15. The mean pressure is one hundred and seventeenth meridians the deficiency exceeds .10, and between the ninetieth and one hundredth meridians it amounts to .20, or more.

BAROMETRIC RANGES.

The monthly barometric ranges at the various Signal Service stations are also given in the table of miscellaneous meteorological data. The ranges, as usual, conform to the general rule, that is, they increase with the latitude and decrease meteorological data. Although comparison of the mean press-ure of the current month with the February normal shows a general deficiency over nearly the whole country, the departures ranges are .43 at Key West, Fla., and 1.16 at Eastport, Me.; are nowhere very marked, being less than .05 in all districts, between the eightieth and ninetieth meridians, .59 at Cedar except in the Gulf States and on the Atlantic coast south of Keys, Fla., and 1.78 at Mackinaw City, Mich.; eastern slope Virginia, where they range from .05 to .10. On the north Pacific of the Rocky Mountains, .79 at Fort Davis, Tex., and 1.23 at Coast coast, and in northern New England, the mean pressure is slightly above the normal.

As compared with the mean pressure of the preceding description of the state of the Rocky Mountains, 19 at Port Davis, 1ex., and 1.25 at Popular River, Mont.; plateau region, .49 at Yuma, Ariz., and slightly above the normal.

97 at Walla Walla and Spokane Falls, Wash.; Pacific coast, Mont.; plateau region, .49 at Yuma, Ariz., and 1.39 at Port Angeles, Wash. In Month of the preceding description of the preceding description. month, an increase occurs along the north Pacific coast and in the upper lake region the ranges for February, 1888, exceed